

#4

<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		ATTY. DOCKET NO.	SERIAL NO.
		2001U014.US	10/022,997
		APPLICANT Murray, Rex E.	
FILING DATE December 18, 2001		GROUP 1750 1621	

#### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JP</i>	AA	6,096,676	08/01/2000	Murray	502	117	
<i>JP</i>	AB	6,103,657	08/15/2000	Murray	502	155	

#### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>JP</i>	AC	EP 0 320 169 A2	14.06.89	Europe				
<i>JP</i>	AD	EP 0 349 886 B1	20.09.95	Europe				
<i>JP</i>	AE	EP 0 509 233 A2	21.10.92	Europe				
<i>JP</i>	AF	EP 0 761 694 B1	12.03.97	Europe				
<i>JP</i>	AG	EP 0 803 520 A1	29.10.97	Europe				
<i>JP</i>	AH	DE 42 02 889 A1	05.08.93	Germany				
<i>JP</i>	AI	WO 92/12162	23.07.92	PCT				
<i>JP</i>	AJ	WO 96/23010	01.08.96	PCT				
<i>JP</i>	AK	WO 96/23101	01.08.96	PCT				
<i>JP</i>	AL	WO 96/33202	24.10.96	PCT				
<i>JP</i>	AM	WO 97/02298	23.01.97	PCT				

#### OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

<i>JP</i>	AN	Gibson et al., "Synthesis and structural characterisation of aluminum imino-amide and pyridyl-amide complexes: bulky monoanionic N,N chelate ligands via methyl group transfer" Journal of Organometallic Chemistry 550, (1998) 453-456.
<i>JP</i>	AO	Fuhrmann et al., "Octahedral Group 4 Metal Complexes That Contain Amine, Amido, and Aminopyridinato Ligands: Synthesis, Structure, and Application in $\alpha$ -Olefin Oligo- and Polymerization" Inorg. Chem 1996, 35, 6742-6745 (Feb.).
<i>JP</i>	AP	George J.P. Briotovsek et al., "Novel Olefin Polymerization Catalysts Based on Iron and Cobalt" Chem. Commun., 1998 849-850 (May).

EXAMINER	<i>Sylvia M. Gonzalez</i>	DATE CONSIDERED
*EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant	



<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO.	SERIAL NO.		
				2001U014.US	10/022,997		
<b>APPLICANT</b> Murray, Rex E.							
<b>FILING DATE</b> December 18, 2001				<b>GROUP</b> 1750 1621			
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	BC	WO 97/45434	04.12.97	PCT			YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	BD						
<b>OTHER DISCLOSURES</b> (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)							
<i>✓</i>	BE	Deelman et al., "Lithium Derivatives of Novel Monoanionic Di-N,N'-chelating Pyridyl- and Quinolyl-1-azaallyl Ligands" Organometalics 1997, 16, 1247-1252 (Aug.).					
<i>✓</i>	BF	Deelman et al., "Novel monanionic di-N,N'-centered chelating ligands and the C <sub>1</sub> and C <sub>2</sub> symmetrical zirconium complexes" Journal of Organometallic Chemistry 513 (1996) 281-285 (Nov.).					
<i>✓</i>	BG	Hitchcock et al., "Transformation of the Bis(trimethylsilyl)methyl into Aza-allyl and $\beta$ -Diketiminato Ligands; the X-Ray Structures of [Li{N(R)C(Bu')CH(R)}] <sub>2</sub> and [Zr{N(R)C(Bu')CHC(Ph)N(R)}Cl] <sub>2</sub> (R = SiMe <sub>3</sub> )" J. Chem. Soc., Chem. Commun. (1994) 2637-2638 (Aug.).					
<i>✓</i>	BH	Hitchcock et al., "Transformation of the Bis(trimethylsilyl)methyl into a $\beta$ -Diketiminato Ligand; the X-Ray Structure of [Li(L'L')] <sub>2</sub> , SnCl(Me) <sub>2</sub> (L'L') and SnCl(Me) <sub>2</sub> (LL), (L'L' = N(R)C(Ph)C(H)C(Ph)NR, LL = N)H)C(Ph)NH, R - SiMe <sub>3</sub> )" J. Chem. Soc., Chem. Commun. (1994) 1699-1700 (May).					
<i>✓</i>	BI	Clarke, et al., "Structural Investigations of the Dipyrrromethene Complexes of Calcium(II), Nickel(II) and Copper(II)" Inorganica Chimica Acta. 166 (1989) 221-231 (Jun.)					
<i>✓</i>	BJ	Tjaden et al. "Synthesis, Structures, and Reactivity of (R <sub>6</sub> -acen)ZrR' <sub>2</sub> and (R <sub>6</sub> -acen)Zr(R') <sup>+</sup> Complexes (R = H, F; R' = CH <sub>2</sub> CMe <sub>3</sub> , CH <sub>2</sub> Ph)" Organometallics 1995, 14, 371-386 (Jul.).					
<i>✓</i>	BK	Corazza et al., "cis-and trans-Dichloro-derivatives of Six- and Seven-coordinate Zirconium and Hafnium bonded to Quadridentate Schiff-base Ligands. Crystal Structures of [Zr(acen)Cl <sub>2</sub> (thf)], [M(salphen)Cl <sub>2</sub> (thf)] 0.5thf, [M(acen)Cl <sub>2</sub> , (M = Zr or Hf), and [Zr(msal)Cl <sub>2</sub> ] acen = N,N'-ethylenebis(acetylacetoneiminate), salphen = N,N'-o-phenylenebis(salicylideneiminate), msal = N-methylsalicylideneiminate, and thf = tetrahydrofuran]" J. Chem. Soc. Dalton Trans. (1990) 1335-1344 (Aug.)					
EXAMINER <i>Roxana Nazario Gonzalez</i>				DATE CONSIDERED <i>5/20/04</i>			
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant							

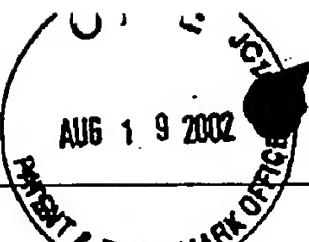


<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>			ATTY. DOCKET NO.	SERIAL NO.		
			2001U014.US	10/022,997		
			APPLICANT	Murray, Rex E.		
<b>FILING DATE</b> December 18, 2001			<b>GROUP</b>	1250 1621		
<b>U.S. PATENT DOCUMENTS</b>						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA					
	CB					
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	CC					YES <input type="checkbox"/> NO <input type="checkbox"/>
	CD					
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)</b>						
CE	Cozzi et al., "Oxazoline Early Transition Metal Complexes: Functionalizable Achiral Titanium(IV), Titanium(III), Zirconium(IV), Vanadium(III), and Chiral Zirconium(IV) Bis(oxazoline) complexes" Inorg. Chem (1995), 34, 2921-2930, (Dec.).					
CF	Korine et al., "Bis(trimethylsilyl)benzamidinate zirconium dichlorides. Active catalysts for ethylene polymerization" Journal of Organometallic Chemistry 503 (1995) 307-314 (Mar.).					
CG	Gomez et al., "Mono- $\eta$ -cyclopentadienyl-benzamidinato chloro compounds of titanium, zirconium and hafnium" Journal of Organometallic Chemistry 491 (1995) 153-158 (Aug.).					
CH	Flores, et al., "[N,N'-Bis(trimethylsilyl)benzamidinato]titanium and-zirconium Compounds. Synthesis and Application as Precursors for the Syndiospecific Polymerization of Styrene" Organometallics 1995, 14, 1827-1833 (Oct.).					
CI	Dias et al., "N-Methyl-2(methylamino)troponiminate Complexes of Tin(II), Gallium(III), and Indium(III). Syntheses of [(Me) <sub>2</sub> ATI] <sub>2</sub> Gal and [(Me) <sub>2</sub> ATI] <sub>2</sub> InCl Using the Tin(III) Reagent [(Me) <sub>2</sub> ATI] <sub>2</sub> Sn" Inorg. Chem. 1996, 35, 6546-6551 (Jun.).					
CJ	Cotton et al., "Structural Studies of formamidine compounds: from neutral to anionic and cationic species" Polyhedron vol. 16 No. 3 pp. 541-550, 1997 (Apr.).					
CK	Gornitzka et al., "Coordination of the Bis(pyridyl)methyl Substituent to Group 1 and 13 Metals" Organometallics 1994, 13, 4398-4405 (May).					
CL	Roesky et al., "Benzamidnatokomplexe mit Haupt- and Nebengruppen-Elementen - Strukturen von PhC(NSiMe <sub>3</sub> ) <sub>2</sub> TiCl <sub>2</sub> and PhC(NSiMe <sub>3</sub> ) <sub>2</sub> MoO <sub>2</sub> " Chem. Ber 121, 1403-1406 (1988) (Feb.).					
EXAMINER			DATE CONSIDERED			
			5/20/04			
*EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant					



<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>			ATTY. DOCKET NO.		SERIAL NO.		
			2001U014.US		10/022,997		
			APPLICANT		Murray, Rex E.		
			FILING DATE		December 18, 2001		
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	DA						
	DB						
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	DC					YES	NO
	DD						
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)</b>							
DE	Cloke et al., "Zirconium Complexes incorporating the New Tridentate Diamide Ligand $[(Me_3Si)N(CH_2CH_2N(SiMe_3))_2]_2$ (L); the Crystal Structures of $[Zr(BH_4)_2L]$ and $[ZrCl\{CH(SiMe_3)_2\}L]$ " J. Chem Soc. Dalton Trans 1995 25-30 (Jul.).						
DF	Linden et al., "Polymerization of $\alpha$ -Olefins and Butadiene and Catalytic Cyclotrimerization of 1-Alkynes by a New Class of Group IV Catalysts. Control of Molecular Weight and Polymer Microstructure via Ligand Turning in Sterically Hindered Chelating Phenoxide Titanium and Zirconium Species" J. Am. Chem. Soc. 1995, 117, 3008-3021 (Jul.).						
DG	Brand et al. "Facile Reduction of a Dialkyl Zirconium(IV) Octaethylporphyrin (OEP) Complex by $H_2$ : Crystal Structure and Spectroscopic Characterization of $[(OEP)ZrCH_2SiMe_3]$ " Angew. Chem. Int. Ed. Engl. 1994 33, No.1 95-97 (Jul.).						
DH	Solari et al., "Functionalized 5,5,10,10,15,15,20,20-Octaethylporphyrinogen Complexes of Early Transition Metals: Synthesis and Crystal Structure of Titanium-, Vanadium- and Chromium- (III) Derivatives and a Two-electron Oxidation of the Porphyrinogen Skeleton" J. Chem. Soc. Dalton Trans 1994 2015-2017 (Apr.).						
DI	Uhrhammer et al., "Cationic $d^0$ Metal Alkyls Incorporating Tetraaza-Macrocyclic Ancillary Ligands. Synthesis and Reactivity of $(Me_3taa)_2M(R)_2^+$ and $(Me_3taen)_2M(R)_2^+$ ( $M = Zr, Hf$ ) Complexes" J. Am. Chem. Soc. 1993, 115, 8493-8494 (Apr.).						
DJ	Giannini, et al., "Tetraaza[14]annulenezirconium (IV) Complexes with Butadiene Ligands and their Relationship with Bis(cyclopentadienyl)zirconium(IV) Complexes." Angew. Chem. Int. Ed. Engl. 1994, 33 No. 21 (May).						
DK	Kol, et al., "Synthesis of Molybdenum and Tungsten Complexes That Contain Triamidoamine Ligands of the Type $(C_6F_5NCH_2CH_2)_3N$ and Activation of Dinitrogen by Molybdenum" J. Am. Chem. Soc. 1994, 116, 4382-4390, (Oct.).						
DL	Bei et al., "Synthesis, Structures, Bonding, and Ethylene Reactivity of Group 4 Metal Alkyl Complexes Incorporating 8-Quinolinolato Ligands" Organometallics 1997, 16, 3282-3302 (Mar.).						
EXAMINER			DATE CONSIDERED				
			5/20/04				
*EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next comment to applicant						

AUG 19 2002



<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>			ATTY. DOCKET NO.		SERIAL NO.		
			2001U014.US		10/022,997		
			APPLICANT		Murray, Rex E.		
			FILING DATE		GROUP		
			December 18, 2001		1750 1021		
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	EC						YES <input type="checkbox"/> NO <input type="checkbox"/>
	ED						
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)</b>							
<i>EE</i>	EE	Tsukahara, et al., "Neutral and Cationic Zirconium Benzyl Complexes Containing Bidentate Pyridine-Alkoxide Ligands. Synthesis and Olefin Polymerization Chemistry of (pyCR <sub>2</sub> O) <sub>2</sub> Zr(CH <sub>2</sub> Ph) <sub>2</sub> and (pyCR <sub>2</sub> O) <sub>2</sub> Zr(CH <sub>2</sub> Ph) <sup>+</sup> Complexes" Organometallics 1997, 16, 3303-3313 (Mar.)					
<i>EF</i>	EF	Kim et al., "Synthesis, Structures, Dynamics, and Olefin Polymerization Behavior of Group 4 Metal (pyCAr <sub>2</sub> O) <sub>2</sub> M(NR <sub>2</sub> ) <sub>2</sub> Complexes Containing Bidentate Pyridine-Alkoxide Ancillary Ligands" Organometallics 1997, 16, 3314-3323 (Mar.)					
<i>EG</i>	EG	Durfee et al., "Formation and Characterization of $\eta^2$ -Imine and $\eta^2$ -Azobenzene Derivatives of Titanium Containing Ancillary Aryloxide Ligation" Organometallics, vol. 9, No. 1, 1990, pp 75-80, (Jan.).					
<i>EH</i>	EH	Lappert et al., "Recent studies on metal and metalloid bis(trimethylsilyl) methyls and the transformation of the bis(trimethylsilyl)methyl into the azaallyl and $\beta$ -diketiminato ligands" Journal of Organometallic Chemistry 500, (1995) 203-217, (Sep.).					
<i>EI</i>	EI						
<i>EJ</i>	EJ						
<i>EK</i>	EK						
<i>EL</i>	EL						
<i>EM</i>	EM						
<i>EN</i>	EN						
EXAMINER	<i>Rafaela Nagari Gonzalez</i>			DATE CONSIDERED			
*EXAMINER:	Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant						